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New Soviet Mobil	e Air Desense			
Command Post: D				
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NEW SOVIET MOBILE AIR	DEFENSE COMMAND POS	T: DOG EAR (S)
	INTRODUCTION	
command post since the mid-1970s. DO-EL-03), consists of an acquisition of an acquisition of a tracked a condition of the con	•	ed DOG EAR (formerly communications (C3) variety of regimental-defense units with an ore closely into the air on DOG EAR, and full-
esting, production, and deploymen une 1976 through August 1983 is su	OOG EAR and summarizes information of this system. Analysis of available pplemented awing, seven photographs, and two ma	satellite imagery from
	DISCUSSION	
3. The DOG EAR (Figure 1) is a the tracked armored command cance vehicle ACRV M-1974. A certain parabolic radar anticlipped corners, which folds down for travel, is mounted on a rotatable.	reconnais- shape and configuration radar antenna of the LA on the SA-8 transporter large rectangular storage	on to the acquisition ND ROLL radar system -launcher and radar. A ge box is mounted on
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OPERATIONAL	TRAVEL	<i>NPIC</i> T-2300
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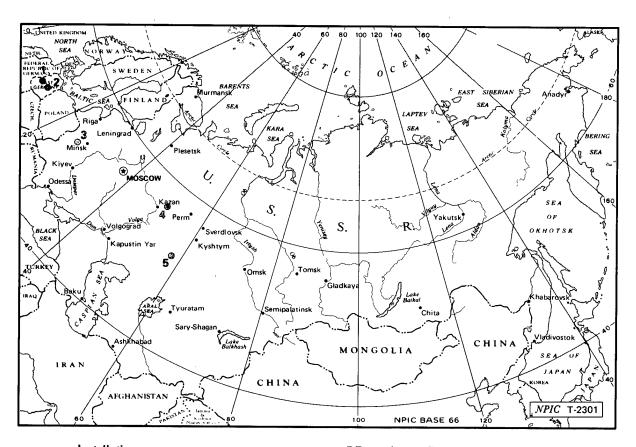
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Installation	BE number	Function
3 Volka Artillery/SAM Maneuver Training Area		Field test/troop training
4 Yoshkar-Ola Optical and Radar Plant Yoshkar-Ola Radar Test Facility Yoshkar-Ola Radar Test Facility Northwest		Production Test Test/storage
5 Donguz Weapons and Electrionics Proving		Testing

FIGURE 2. LOCATIONS OF REPORTED DOG EAR ACTIVITY

Early Evidence

4. The DOG EAR, or activities relating to it, have been observed at five Soviet locations (Figure 2) since 1977:1

Three electronics test facilities - Donguz Weapons and Electronics Proving Ground Northeast, Yoshkar-Ola Radar Test Facility, and Yoshkar-Ola Radar Test Facility Northwest; One production plant - Yoshkar-Ola Optical and Radar Plant 297;

Two training facilities-Volka Artillery/

SAM Maneuver Training Area, and

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5. The DOG EAR was first observed on overhead imagery on at Donguz (Figure 3), which is the main Soviet support facility for test and evaluation of ground forces-associated antiaircraft artillery (AAA) and SAM systems and their associated electronics. It was given the NPIC interim designation DO-EL-03. This was the only time the DOG EAR has been observed at Donguz.

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Recent Evidence

Three air defense-related electronics production and test facilities—a manufacturing plant, and two radar test facilities—have been identified in the Yoshkar-Ola area (Figure 4). The Yoshkar-Ola Optical and Radar Plant 297 produces FLAP WHEEL AAA fire control radars, computer/electronics van trailers associated with SA-2, SA-3, SA-5 and SA-10 SAM systems, and the SA-X-12 command and control vehicles. The PAT HAND tracking and guidance radar for the SA-

FIGURE 3. INITIAL OBSERVATION OF DOG EAR AT DONGUZ

- 4 SAM system was produced there prior to June 1981. This plant also installs electronics equipment in ACRV M-1974s, which have been seen there canvas-covered since 1979, and box-bodied van trucks.
- 7. Yoshkar-Ola Radar Test Facility, located 3.3 nautical miles (nm) WNW of the plant, is the main developmental test and calibration facility for the plant. Several sheds are used to conceal test activities there. FLAP WHEEL radars are routinely seen at this facility, and canvas-covered turretless ACRV M-1974s have been at this facility since October 1981. Yoshkar-Ola Radar Test Facility Northwest is 2.0 nm NW of the plant and serves primarily as

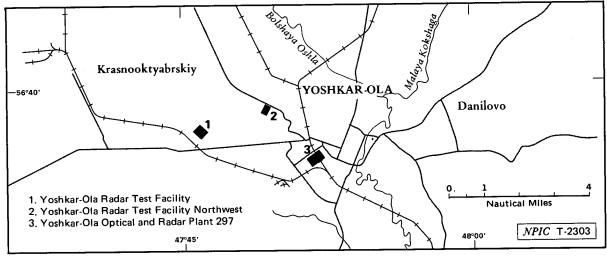


FIGURE 4. AIR DEFENSE ELECTRONICS-RELATED PRODUCTION AND TEST FACILITIES IN THE YOSHKAR-OLA AREA

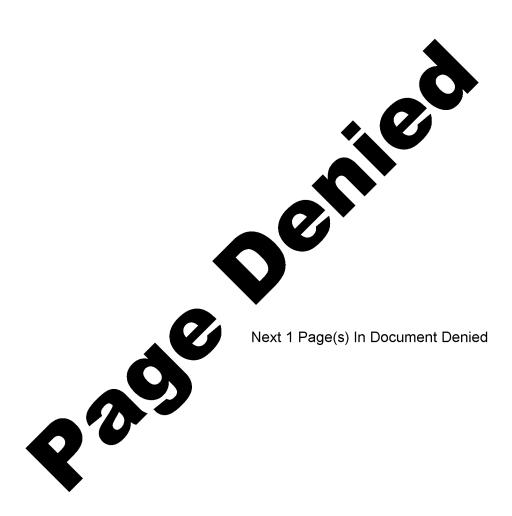
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the plant's main vehicle storage area. Most types of vehicles that have been observed at the plant have also been seen there. Canvascovered turretless ACRVs have been there since July 1982. (S/WN)	Recent Imagery Evidence 9. The first imagery-derived evidence of the presence of DOG EAR at any of the Yoshkar-Ola facilities was the observation of two possible canvas-covered DOG EARs at the radar test facility on (Figure 5). On the same date, a new test shed was under construction. The presence of DOG EAR at Yoshkar-Ola was confirmed on when one DOG EAR in operational mode was seen in this test facility adjacent to the new shed (Figure 6). A probable DOG EAR without the radar antenna was in the FLAP WHEEL storage yard of the Yoshkar-Ola plant on the same date (Figure 7). (S/WN)	25
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	10. Activity related to field testing and troop training with the DOG EAR has been reported at one Soviet locations since March 1983.	Imagery Analyst's Comments 11. Based on all available information, it seems certain that the DOG EAR, is a mobile air defense command post mounting an acquisition radar and will be deployed with regimental- or divisional-level air defense units. Use of the tracked ACRV M-1974 chassis provides sufficient mobility to allow the DOG EAR to keep up with advancing ground forces units and their air defense forces in a fluid battle situation. At least pilot series production of DOG EAR has begun at Yoshkar-Ola Optical and Radar Plant 297, and this system has been deployed for probable field testing and troop training at Volka, probably with ZSU-23/4 and	25X 25X 25X 25X
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